

AMENDED AGREEMENT BETWEEN THE  
STATE OF CALIFORNIA AND ARIZONA  
COVERING PLANNING, CONSTRUCTION, MAINTENANCE  
AND USE OF THE BRIDGE ACROSS  
THE COLORADO RIVER AT YUMA

This amended agreement dated *May 20*, 1975, including terms and conditions entered into on the first day of October 1966 by and between the STATE OF CALIFORNIA, acting by and through its Department of Transportation, hereafter referred to as "CALIFORNIA", and the STATE OF ARIZONA, acting by and through the Arizona Highway Department now Department of Transportation, hereafter referred to as "ARIZONA", is herewith amended, and as amended, is set forth herein in full as a new amended document.

WITNESSETH:

RECITALS

WHEREAS, the parties to this agreement have agreed that California will complete a preliminary engineering study for a proposed bridge across the Colorado River at Yuma, Arizona, on Interstate Route 8 to determine location, nature of foundation material, type of structure and alignment of the proposed crossing and approaches, and

WHEREAS, the completed study indicates that the proposed crossing should be located approximately 2,000 ft. upstream from the existing highway bridge, and

WHEREAS, CALIFORNIA and ARIZONA each propose to budget necessary state and federal funds to finance

I hereby certify that all conditions set forth in this Agreement have been complied with and that the same have been approved by the Department of Transportation.

their shares of the cost of preliminary construction engineering and construction of the bridge and approaches and

WHEREAS, the parties hereto desire that CALIFORNIA and ARIZONA bear the cost of preliminary and construction engineering and cost of construction of the westerly and easterly portions of the bridge respectively and that both parties cooperatively and jointly finance, plan, and construct the proposed bridge and

WHEREAS, the term bridge as used in this agreement is defined as a single structure having four traffic lanes, across the Colorado River approximately 2000 feet upstream from the existing highway bridge and consisting of the river spans and connecting viaduct spans between paving notches, and will include abutments, piers, riprap, bank protection or channel work and all other mutually agreed to necessary bridge work, all essentially as shown on "Exhibit A", attached hereto and,

WHEREAS, ARIZONA has determined that the construction of certain revisions to the City of Yuma's water treatment facilities are required by reason of bridge construction and shall be included within the bridge construction project without cost participation by CALIFORNIA and

WHEREAS, ARIZONA shall include within the bridge construction project, construction of approximately 1,000 ft.

of highway, including grading, paving, safety railing and other highway appurtenances, to the east of the easterly abutment without cost participation by CALIFORNIA and

WHEREAS, the term "project" as used in this agreement is defined as the total construction herein contemplated, including the bridge, the water treatment facilities revisions and the approximately 1,000 feet of highway, all essentially as shown on "Exhibit A" and,

WHEREAS, ARIZONA proposes that CALIFORNIA act as ARIZONA'S agent in the preparation of a construction agreement with any railroad companies affected by the proposed construction and administer any railroad work performed as required by the project and

WHEREAS, CALIFORNIA is willing to include this additional work, as shown on "Exhibit C", within the scope of the project, and

WHEREAS, by reason of the revised alignment of the bridge and the change in concept of the project wherein the thread of the Colorado River now intersects the bridge at Station C 369+81 instead of B 367+85 on the prior agreed alignment, and Exhibit "A" and Exhibit "B" of the October 1, 1966 agreement are obsolete because of the change in concept of the project.

#### AGREEMENT

NOW THEREFORE the parties hereto agree as follows:

ARTICLE I

IN CONSIDERATION of the covenants of ARIZONA hereinafter contained and the faithful performance thereof, CALIFORNIA agrees:

1. At its own cost and expense to obtain necessary additional right of way, prepare plans and specifications, advertise, award, construct and pay all cost of westerly approach to said bridge and shall thereafter, at its own cost and expense, assume responsibility for the maintenance of said approach at all times in a good and traversable condition.

2. To incorporate, after review and approval by CALIFORNIA, the plans and specifications provided by ARIZONA and/or its agents for revisions to the City of Yuma's water treatment facilities, and to administer the construction of said revisions, all at ARIZONA'S expense.

3. To incorporate, after review and approval by CALIFORNIA, the plans and specifications provided by ARIZONA for the 1,000 ft. of highway easterly of the east abutment of the bridge, including grading, paving, safety railing and highway appurtenances, and to administer the construction of said highway, all at ARIZONA'S expense.

4. To enter into an agreement with Railroad Companies for the right to enter Railroad property and construct the bridge and those portions of the water

treatment facility which cross Railroad property and tracks, and to reimburse Railroads for Railroad work necessitated by construction of the bridge and water treatment plant, all at ARIZONA'S expense.

5. To acquire at its own cost and expense all additional rights of way necessary for the construction of the bridge westerly of Station C 369+81.

6. To make any and all arrangements that may be necessary to secure the location or relocation of wire lines, pipe lines, and other facilities owned by public utilities, private persons, companies, corporations or political subdivisions which it may be found necessary to locate or relocate in any manner whatsoever due to the construction of the bridge westerly of Station C 369+81 at the expense and cost of whomever is legally liable. It is the intent of this clause that, as between the two parties to this agreement, CALIFORNIA shall be responsible for making all necessary arrangements for the location or relocation of all such facilities, whether the legal liability for the cost thereof be upon CALIFORNIA or on the owner of any such facility. As between CALIFORNIA and any such utility, person, company, corporation or political subdivision, this agreement shall not affect any rights or obligations for payment of the cost of location or relocation of any such facilities.

7. To prepare all plans and specifications for the bridge as herein defined, which plans and specifications shall be submitted to ARIZONA for approval prior to the advertising for bids.

8. To advertise for bids and award contract to the lowest responsible bidder and administer the contract and pay the cost thereof, and supervise the construction of said bridge, in accordance with said plans and specifications as approved by both parties. Should the lowest acceptable bid exceed the estimated cost of the contract work included in "Exhibit B," attached hereto and by this reference made a part hereof, CALIFORNIA shall secure the written approval of ARIZONA to cover its share of the excess cost before award of contract is made to the lowest responsible bidder. CALIFORNIA will cooperate in any way needed to the end that the planning and construction of said bridge will be performed in accordance with the requirements of the Federal Highway Administration, to assure ARIZONA will be eligible to collect federal funds for its share of the cost of constructing said bridge.

9. The apportionment of cost to each State, for the bridge, is to be based on the total actual cost of the bridge using an agreed upon station at the thread of the Colorado River, Station C 369+81 as the dividing point. The total final cost to CALIFORNIA will be that total cost of the bridge from the westerly abutment to

Station C 369+81 including the cost of preliminary engineering, construction engineering and construction cost. The total final cost to ARIZONA will be that total cost of the bridge from Station C 369+81 to the easterly abutment including the cost of preliminary engineering, construction engineering and construction cost.

10. For purposes of payments to cover costs of preliminary engineering and construction engineering of the bridge, the Engineer's Estimate at the time of advertising will be used to determine each State's percentage share of the cost. Progress payments to cover the cost of construction of the bridge will be based on actual work done by the Contractor.

11. The City of Yuma's water treatment facilities and the section of highway easterly of the east bridge abutment, included in this project at the request of and for the benefit of ARIZONA, shall have the total cost of any preliminary engineering, planning, construction engineering and construction of said water treatment facilities and highway section compiled and billed monthly to ARIZONA as to all costs and charges incurred by CALIFORNIA in connection therewith.

12. To bill ARIZONA monthly for its share of the actual cost incurred by CALIFORNIA in planning and constructing said bridge as such costs are defined herein and all the costs incurred by CALIFORNIA regarding the

planning and construction of the water treatment facilities and ARIZONA highway section easterly of the eastern bridge abutment.

13. When construction of said project has been completed, CALIFORNIA shall compile and forward to ARIZONA a detailed statement of the total cost incurred by CALIFORNIA for preliminary engineering, planning, construction engineering and construction of said project as such costs are hereinbefore defined, and shall bill ARIZONA for its share of said bridge costs and all of the water treatment and highway section costs, less payments already received from ARIZONA pursuant to prior monthly progress billings.

14. Upon receipt of bills issued by ARIZONA pursuant to this agreement, to properly reimburse ARIZONA in amount of said bills.

15. To make final accounting of apportionment of costs to each party to this agreement.

## ARTICLE II

IN CONSIDERATION of the covenants of CALIFORNIA hereinbefore contained and the faithful performance thereof, ARIZONA agrees:

1. At its own cost and expense to obtain necessary additional right of way, prepare plans and specifications, advertise, award, construct and pay all costs of easterly approach to said bridge and shall thereafter, at its own cost and expense, assume responsibility for the



maintenance of said approach at all times in a good and traversable condition.

2. To acquire at its own cost and expense all additional right of way necessary for the construction of the bridge easterly of Station C 369+81 and furnish to CALIFORNIA, prior to advertising the project, evidence that necessary right of way is available for construction purposes.

3. To obtain necessary permits for CALIFORNIA or ARIZONA to enter on easterly side of river for purposes of surveys, foundation studies, subsoil investigations or other necessary investigations.

4. To make any and all arrangements that may be necessary to secure the location or relocation of wire lines, pipe lines and other facilities owned by Public Utilities, private persons, companies, corporations or political subdivisions which it may be found necessary to locate or relocate in any manner whatsoever, due to the construction of the bridge easterly of Station C 369+81 at the expense and cost of whoever is legally liable therefor. It is the intent of this clause that, as between the two parties to this Agreement, ARIZONA shall be responsible for making all necessary arrangements for the location or relocation of all such facilities, whether the legal liability for the cost thereof be upon ARIZONA or on the owner of any such facility. As between

ARIZONA and any such utility, person, company, corporation or political subdivision, this Agreement shall not affect any rights or obligation for payment of the cost of location or relocation of any such facilities.

5. To furnish CALIFORNIA with plans and specifications for the revisions to the City of Yuma's water treatment facilities for incorporation into the project plans and specifications and to pay all additional costs incurred by reason of construction of the revisions.

6. To furnish CALIFORNIA plans and specifications for the highway section, including grading, paving, safety railing and highway appurtenances, to be constructed easterly of the east abutment for incorporation into the project plans and specifications and to pay all additional costs incurred by reason of the construction of that highway section addition.

7. To authorize CALIFORNIA to act as ARIZONA'S agent for Railroad negotiations as required herein and to pay all costs associated with such Railroad work.

8. To prepare, or have prepared, agreements between the Railroad Company and ARIZONA to cover necessary easements and/or other real property matters and to cover maintenance of highway, treatment facilities and railroad facilities after completion of construction.

9. To obtain authorization to construct the project from The Arizona Corporation Commission and/or all other authorities having jurisdiction.

10. Upon receipt of monthly bills issued by CALIFORNIA pursuant to the terms of this agreement, to promptly reimburse CALIFORNIA in the amount of said bills.

11. That the construction contract to be let and supervised by CALIFORNIA will be administered pursuant to California laws, regulations, and procedures governing standard highway construction contracts. California law shall govern in such procedures as bidding, licensing of contractors, prequalification, requirements for material and labor bonds, working hours and days, prevailing wages, employment of apprentices, penalties for violations, stop notice enforcement procedures, and all other standard procedures of CALIFORNIA pertaining to contract administration.

12. That the construction of the project shall be under the supervision and control of CALIFORNIA. However, ARIZONA may furnish its own engineering or other personnel to perform such portions of the preliminary engineering or construction engineering for the bridge as may be agreed upon by the parties. The cost of such preliminary and construction engineering shall be deemed a part of the total cost of the construction of the bridge to be shared between the parties. Such inspectors or engineers furnished by ARIZONA shall act in a consulting capacity and shall have no control over CALIFORNIA'S State personnel, contractor or contractors.

13. ARIZONA shall prepare and forward monthly, to CALIFORNIA, a detailed statement of the cost of preliminary and construction engineering performed by ARIZONA, excluding the water treatment plant and highway section easterly of the east bridge abutment, together with bill for CALIFORNIA'S share of said cost. Upon completion of the work, ARIZONA shall compile and forward, to CALIFORNIA, a detailed statement of the total cost of the bridge preliminary and construction engineering performed by ARIZONA pursuant to this agreement and shall bill CALIFORNIA for CALIFORNIA'S share of said sum, less payments already received from CALIFORNIA pursuant to prior monthly progress billings.

### ARTICLE III

IN CONSIDERATION of the premises, it is mutually agreed:

1. That all work contemplated in this agreement shall be performed in a good and workmanlike manner and to the satisfaction of the parties hereto, and each portion shall be promptly commenced by the parties hereto obligated to do the same and thereafter diligently prosecuted to conclusion of its logical order and sequence.

2. A joint application showing the location and plans of the bridge will be submitted by CALIFORNIA to the Department of Transportation for approval pursuant to the provisions of the General Bridge Act of 1946. Should the

parties thereto desire to obtain any modification of the terms of the approval expected to be granted by the Department of Transportation, the parties will jointly file an application for such modification.

3. That the actual cost of planning and constructing the bridge is to be shared by the parties, as such costs are defined in Article I, hereof. Such costs shall be so shared regardless of whether or not the actual costs are eligible for federal participation. The total cost shall include any necessary expense incurred by either party prior to October 1, 1966 which cost incurred by CALIFORNIA is not to exceed \$8,000.00 and which cost incurred by ARIZONA is not to exceed \$0.00, unless otherwise mutually agreed to by the parties. All amounts paid by the State of California pursuant to the contract for the construction of said bridge, including payments on claims arising under or by virtue of said contract and all amounts paid pursuant to any judgment awarding damages or other compensation arising out of the performance of the work under said construction contract, shall be included as part of the total cost of construction to be shared by the parties hereto pursuant to the provisions of this agreement governing the apportionment of costs. Payments on claims arising under or by virtue of said contract and all amounts paid pursuant to any judgment awarding damages or other compensation arising out of the performance of the water treatment or highway section work for ARIZONA under said construction contract shall be the sole responsibility of ARIZONA.

4. That upon completion of said bridge as herein provided for and opening of said bridge to public use, the parties will jointly assume responsibility for the maintenance, policing, repairing, replacing or reconstructing said bridge, including riprap, bank protection or channel work, and that said bridge shall be maintained in accordance with the provisions of agreement dated January 29, 1953, between the parties hereto covering the maintaining of three existing bridges across the Colorado River except that the costs generated by such maintenance shall be apportioned between the states in same percentage shares as the actual final cost of the completed bridge is apportioned between the states.

5. Exhibit "A" and Exhibit "B" of the October 1, 1966 agreement are obsolete because of the change in concept of the project and are hereby replaced with "Exhibit A", attached hereto and made a part hereof, a plan of the proposed project showing the essential features included within the project, "Exhibit B", an estimate of the contract work included in the bridge portion of the project, attached and made a part hereof, and "Exhibit C", an estimate of the contract work included in the water treatment and highway section portion of the project, attached and made a part hereof.

6. That, in matters concerning the water treatment facilities, the term "ARIZONA" in this agreement may include the City of Yuma and its authorized consultants, agents and employees, acting by and through valid cooperative agreements between the City of Yuma and the State of Arizona.

7. That ARIZONA shall be responsible for the adequacy and completeness of the plans and specifications provided to CALIFORNIA for the water treatment facilities revisions and highway herein before referred to and shall hold CALIFORNIA harmless from liability resulting from defects in design or inadequacies or omissions in said plans and specifications.

8. That CALIFORNIA, acting as contracting agency, shall be responsible for construction being in compliance with plans and specifications provided by ARIZONA and shall hold ARIZONA harmless from liability resulting from deviations from or non-compliance with said plans and specifications. Any changes or alterations to said plans and specifications, requested by either party hereto or necessitated by unforeseen conditions, shall be approved in writing by both parties to this agreement.

9. That neither CALIFORNIA nor any officer or employee thereof shall be responsible for any damage or liability occurring by reason of anything done or omitted to be done by ARIZONA under or in connection with any work, authority or jurisdiction delegated to ARIZONA under this agreement. It is also understood and agreed that ARIZONA shall fully indemnify and hold CALIFORNIA harmless from any liability imposed for injury occurring by reason of anything done or omitted to be done by ARIZONA under or in connection with any work, authority or jurisdiction delegated to ARIZONA under this agreement and shall indemnify and save CALIFORNIA, its officers, agents and employees harmless from any and

all liability for injuries to persons or damage to property caused or resulting in any manner from CALIFORNIA'S performance under this agreement, excepting for injuries to persons or damage to property caused or resulting from the sole negligence or willful misconduct of CALIFORNIA, its officers, agents and employees.

10. That neither ARIZONA nor any officer or employee thereof shall be responsible for any damage or liability occurring by reason of anything done or omitted to be done by CALIFORNIA under or in connection with any work, authority or jurisdiction not delegated to ARIZONA under this agreement. It is also understood that CALIFORNIA shall fully indemnify and hold ARIZONA harmless from any liability imposed for injury occurring by reason of anything done or omitted to be done by CALIFORNIA under or in connection with any work, authority or jurisdiction not delegated to ARIZONA under this agreement.

11. That the provisions of this agreement dividing the cost of planning, construction, maintenance, policing, repairing, replacing or reconstructing said bridge are agreed to on the basis that the Interstate-Boundary is at Station C 369+81 which is considered to be the thread of the Colorado River. The division of such costs in the manner prescribed herein is solely to provide a basis for allocating cooperative expenditure upon said bridge project and is intended to avoid any controversy with respect to inter-territorial jurisdiction regarding the planning, construction, maintaining and use of said bridge.

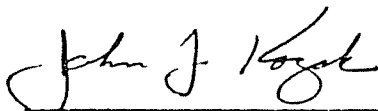



12. That the books, papers records and accounts of the parties hereto, insofar as they relate to the items of expense, labor, materials, or are in any way connected with work herein contemplated, shall, at all reasonable times, be open to inspection and audit by agents and the authorized representative of the parties hereto and the Federal Highway Administration.

IN WITNESS WHEREOF, the parties have executed this supplemental agreement, in duplicate, by their respective officers thereunto duly authorized, the day and year first above written.

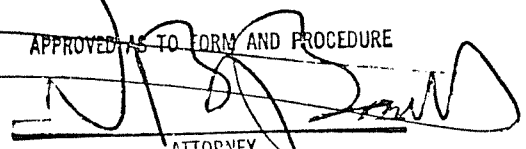
STATE OF CALIFORNIA  
Department of Transportation

APPROVAL RECOMMENDED:

  
\_\_\_\_\_  
Chief  
Division of Structures

  
\_\_\_\_\_  
HOWARD C. ULLRICH  
Director of Transportation

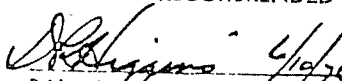
APPROVED AS TO FORM AND PROCEDURE

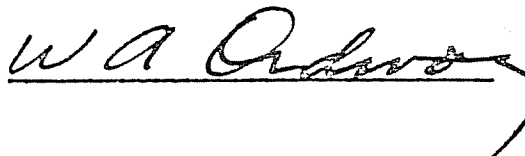
  
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ATTORNEY  
DEPARTMENT OF TRANSPORTATION

STATE OF ARIZONA  
Arizona Department of Transportation

Director of Transportation

APPROVAL RECOMMENDED

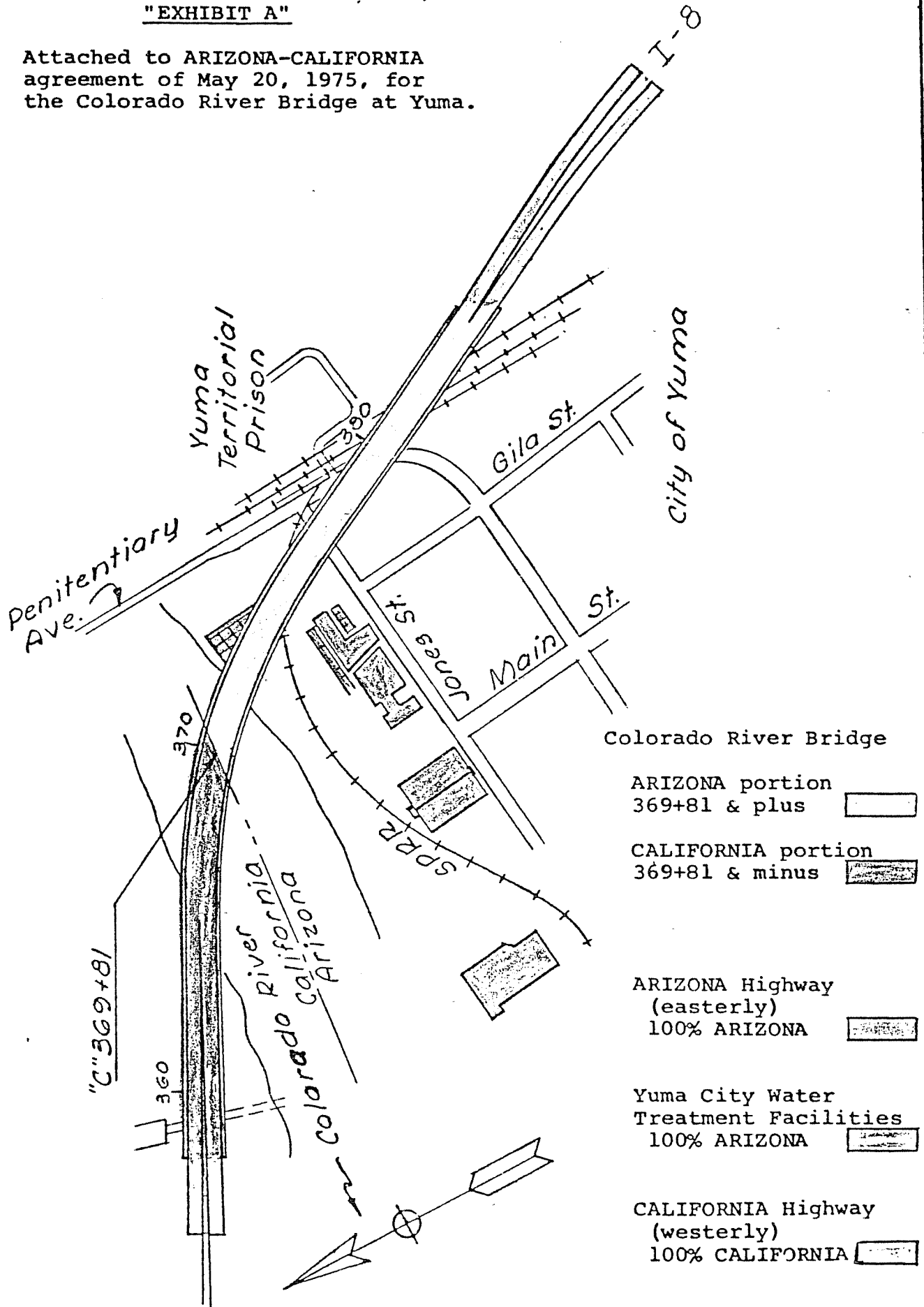
  
\_\_\_\_\_  
Bridge Agreements Branch  
Office of Structures

  
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W. A. Owens

  
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E. P. Brown

"EXHIBIT A"

Attached to ARIZONA-CALIFORNIA  
agreement of May 20, 1975, for  
the Colorado River Bridge at Yuma.



# EXHIBIT "B"

## ESTIMATE OF COST OF BRIDGE TO EACH STATE DIVIDED AT STATION C 369 + 81

### CALIFORNIA SHARE, WESTERLY ABUTMENT TO STATION C 369 + 81

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	ITEM COST
1	EXPANSION JOINT ASSEMBLY	LB	20,000	2.00	40,000.
2	STRUCTURE EXCAVATION (BRIDGE)	CY	1,830	10.00	18,300.
3	STRUCTURE EXCAVATION (TYPE A)	CY	3,860	80.00	308,000.
4	STRUCTURE BACKFILL (BRIDGE)	CY	920	20.00	18,400.
5	FURNISH CONCRETE PILING (CLASS 70)	LF	2,355	7.00	16,485.
6	FURNISH STEEL PILING (BP 10X57)	LF	10,290	11.00	113,190.
7	DRIVE CONCRETE PILE (CLASS 70)	EA	30	550.00	16,500.
8	DRIVE STEEL PILE (BP 10X57)	EA	210	500.00	105,000.
9	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	0.54		607,500.
				125,000.	
10	SEAL COURSE CONCRETE	CY	700	80.00	56,000.
11	STRUCTURAL CONCRETE BRIDGE FOOTING	CY	1,360	140.00	190,400.
12	STRUCTURAL CONCRETE, BRIDGE	CY	8,250	180.00	1,485,000.
13	BAR REINFORCING STEEL (BRIDGE)	LB	1,710	0.27	461,700.
14	8" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	LF	94	7.00	658.
15	MISCELLANEOUS METAL (BRIDGE)	LB		1.50	6,525.
16	MISCELLANEOUS METAL (RESTRAINER)	LB	7,900	2.50	19,750.
17	CONCRETE BARRIER (TYPE 25)	LF	3,675	20.00	73,500.
18	CONCRETE BARRIER (TYPE 50A MODIFIED)	LF	548	15.00	8,220.

## EXHIBIT "B"

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	ITEM COST
19	HEADLIGHT GLARE SCREEN	LF	2,160	2.50	5,400.00
20	MOBILIZATION	LS	0.45	800,000	<u>360,000.00</u>
	SUBTOTAL CONTRACT ITEMS				3,911,328.00
	CONTINGENCIES				<u>180,000.00</u>
	SUB TOTAL, CALIFORNIA SHARE OF ITEMS & CONTINGENCIES				4,091,328.00
	PRELIMINARY (4% ESTIMATED) ENGINEERING				164,000.00
	CONSTRUCTION (8% ESTIMATED) ENGINEERING				<u>328,000.00</u>
	TOTAL, CALIFORNIA SHARE OF BRIDGE				4,583,328.00

## EXHIBIT "B"

ARIZONA SHARE, STATION C 369 + 81 TO EASTERLY ABUTMENT

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	ITEM COST
1	WATER TREATMENT PLAN REMOVAL	LS	1	110,000.	110,000.00
2	STRUCTURE EXCAVATION (MINED SHAFT)	CY	455	200	91,000.00
3	STRUCTURAL CONCRETE (MINED SHAFT)	CY	455	145	65,975.00
4	EXPANSION JOINT ASSEMBLY	LB	20,000	2.	40,000.00
5	TEMPORARY RAILING (TYPE K)	LF	640	12.	7,680.00
6	STRUCTURE EXCAVATION (BRIDGE)	CY	3,000	10.	30,000.00
7	STRUCTURE BACKFILL (BRIDGE)	CY	1,710	20.	34,200.00
8	FURNISH STEEL PILING (BP 10X57)	LF	8,180	11.	89,980.00
9	DRIVE STEEL PILE (BP 10X57)	EA	186	500.	93,000.00
10	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	0.45	1,125,000	517,500.00
11	STRUCTURAL CONCRETE BRIDGE FOOTING	CY	1,090	140.	152,600.00
12	STRUCTURAL CONCRETE, BRIDGE	CY	10,040	180.	1,807,200.00
13	BAR REINFORCING STEEL (BRIDGE)	LB	2,035,000	0.27	549,450.00
14	8" PERFORATED STEEL PIPE UNDER DRAIN (.064 THICK)	LF	120	7.	1,148.00
15	CLASS 2 PERMEABLE MATERIAL (BRIDGE)	CY	60	20.	1,200.00
16	8" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	LF	120	8.	960.00
17	MISCELLANEOUS METAL (BRIDGE)	LB	10,800	1.50	16,200.00
18	MISCELLANEOUS METAL (RESTRAINER)	LB	7,900	2.50	19,750.00

## EXHIBIT "B"

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	ITEM COST
19	CONCRETE BARRIER (TYPE 25)	LF	3,108	20.	62,160.00
20	CONCRETE BARRIER (TYPE 50A MODIFIED)	LF	1,564	15.	23,460.00
21	HEADLIGHT GLARE SCREEN	LF	555	2.50	1,387.50
22	MOBILIZATION	LS	0.55	800,000	<u>440,000.00</u>
	SUBTOTAL CONTRACT ITEMS				4,372,850.50
	CONTINGENCIES				<u>220,000.00</u>
	SUBTOTAL, ARIZONA SHARE OF ITEMS & CONTINGENCIES				4,374,850.50
	PRELIMINARY ENGINEERING (4% ESTIMATED)				175,000.00
	CONSTRUCTION ENGINEERING (8% ESTIMATED)				<u>350,000.00</u>
	TOTAL, ARIZONA SHARE OF BRIDGE				4,899,850.00

EXHIBIT "C"

ESTIMATE OF COST FOR ARIZONA HIGHWAY EAST OF EASTERLY BRIDGE ABUTMENT

<u>ITEM NO.</u>	<u>ITEM</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM PRICE</u>	<u>TOTAL</u>
1	ROADWAY EXCAVATION	CY	8,800	2.00	17,600.00
2	EMBANKMENT	CY	8,750	2.00	17,500.00
3	FINISHING ROADWAY	LS	LUMP SUM	2,000.00	2,000.00
4	CLASS 4 AGGREGATE SUBBASE	CY	3,300	5.00	16,500.00
5	CLASS 2 AGGREGATE BASE	CY	730	9.00	6,570.00
6	CEMENT TREATED BASE (ROAD-MIXED, CLASS A)	CY	1,310	15.00	19,650.00
7	LIQUID ASPHALT, MC-250 (CURING SEAL AND PRIME COAT)	TON	8	200.00	1,600.00
8	CEMENT TREATMENT (0.50' THICK)	SQYD	830	2.00	1,660.00
9	ASPHALT CONCRETE (TYPE B)	TON	50	20.00	1,000.00
10	ASPHALTIC EMULSION (FOG SEAL COAT AND PAINT BINDER)	TON	1	200.00	200.00
11	CONCRETE PAVEMENT (0.75' THICK)	SQYD	8,740	14.00	122,360.00
12	TRANSVERSE WEAKENED PLANE JOINT	LF	5,150	.50	2,575.00
13	STRUCTURAL CONCRETE, APPROACH SLAB	CY	23	250.00	5,750.00
14	SIGN STRUCTURE (TRUSS)	LB	6,042	.75	4,531.50
15	30" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	14	90.00	1,260.00
16	12" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	LF	545	12.00	6,540.00
17	ANCHOR ASSEMBLY	EA	57	25.00	1,425.00
18	OVERSIDE DRAIN INLET	EA	3	700.00	2,100.00

EXHIBIT "C"

<u>ITEM NO.</u>	<u>ITEM</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM PRICE</u>	<u>TOTAL</u>
19	DOWNDRAIN ENERGY DISSIPATOR	EA	3	500.00	1,500.00
20	MINOR CONCRETE (CURB)	LF	1,108	.50	554.00
21	CHAIN LINK FENCE (TYPE CL-4)	LF	635	6.00	3,810.00
22	RIGHT OF WAY MARKER	EA	4	200.00	800.00
23	MARKER	EA	13	15.00	195.00
24	METAL BEAM GUARD RAILING (TYPE A)	LF	1,947	15.00	29,130.00
25	CONCRETE BARRIER (TYPE 50)	LF	940	40.00	37,600.00
26	TYPE A PAVEMENT MARKER (CLASS III)	EA	864	2.00	1,728.00
27	TYPE C PAVEMENT MARKER	EA	108	3.00	324.00
28	TYPE H PAVEMENT MARKER	EA	214	3.00	642.00
29	LIGHTING AND SIGN ILLUMINATION	LS	LUMP SUM	5,300.00	5,300.00
30	MOBILIZATION 10.00%	LS	LUMP SUM	34,711.50	<u>34,711.50</u>
SUBTOTAL CONTRACT ITEMS					347,116.00
SUBTOTAL SUPPLEMENTAL WORK					7,800.00
SUBTOTAL STATE OF ARIZONA FURN MATL+EXP					1,120.00
SUBTOTAL CONCURRENT WORK					<u>700.00</u>
PROJECT SUBTOTAL					356,036.00
CONTINGENCIES 4.99%					<u>17,764.00</u>
SUBTOTAL COST OF HIGHWAY WORK					373,800.00
PRELIMINARY ENGINEERING (Estimated @ 4%)					15,000.00
CONSTRUCTION ENGINEERING (Estimated @ 8%)					<u>30,000.00</u>
TOTAL ESTIMATED COST TO ARIZONA FOR HIGHWAY WORK					418,800.00



EXHIBIT "C"

ESTIMATE OF COST FOR CALIFORNIA HIGHWAY WEST OF WESTERLY BRIDGE ABUTMENT

<u>ITEM</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM PRICE</u>	<u>TOTAL</u>
REMOVE PAINTED TRAFFIC STRIPE AND PAVEMENT MARKING	SqFt	2,303	1.00	2,303.00
REMOVE PAVEMENT MARKER	EA	60	1.50	90.00
REMOVE ROADSIDE SIGN (WOOD POST)	EA	6	50.00	300.00
RECONSTRUCT CHAIN LINK FENCE	LF	110	4.00	440.00
ROADWAY EXCAVATION (TYPE A)	CY	580	20.00	11,600.00
FINISHING ROADWAY	LS	LS	1,000.00	1,000.00
CLASS 4 AGGREGATE SUBBASE	CY	770	5.00	3,850.00
CLASS 2 AGGREGATE BASE	CY	490	9.00	4,410.00
CEMENT TREATED BASE (ROAD-MIXED, CLASS A)	CY	240	15.00	3,600.00
LIQUID ASPHALT, MC-250 (CURING SEAL AND PRIME COAT)	TON	5	200.00	1,000.00
ASPHALT CONCRETE (TYPE B)	TON	550	20.00	11,000.00
PLACE ASPHALT CONCRETE DIKE	LF	660	1.00	600.00
ASPHALTIC EMULSION (FOG SEAL COAT AND PAINT BINDER)	TON	1	200.00	200.00
CONCRETE PAVEMENT (0.70' THICK)	SqYd	1,440	12.00	17,280.00
TRANSVERSE WEAKENED PLANE JOINT	LF	850	.50	425.00
STRUCTURAL CONCRETE, APPROACH SLAB	CY	29	250.00	7,250.00
SIGN STRUCTURE (TRUSS)	LB	5,337	.75	4,002.75
30" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	14	90.00	1,260.00
METAL (RAIL MOUNTED SIGN)	LB	221	1.00	221.00
WOOD (ROADSIDE SIGN)	MFBM	0.6	3,000.00	1,800.00

## EXHIBIT "C" (Cont'd)

<u>ITEM</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM PRICE</u>	<u>TOTAL</u>
INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	1	100.00	100.00
INSTALL SIGN PANEL ON EXISTING FRAME	SqFt	144	2.00	288.00
MARKER	EA	67	15.00	1,005.00
METAL BEAM GUARD RAILING	LF	515	15.00	7,725.00
CABLE ANCHOR ASSEMBLY	EA	1	300.00	300.00
CABLE ANCHOR ASSEMBLY (BREAKAWAY, TYPE A)	EA	1	300.00	300.00
CABLE ANCHOR ASSEMBLY (BREAKAWAY, TYPE B)	EA	2	300.00	600.00
TYPE A PAVEMENT MARKER (CLASS III)	EA	1,424	2.00	2,848.00
TYPE C PAVEMENT MARKER	EA	178	3.00	534.00
TYPE G PAVEMENT MARKER	EA	46	3.00	138.00
TYPE H PAVEMENT MARKER	EA	352	3.00	1,056.00
LIGHTING AND SIGN ILLUMINATION	LS	LS	9,200.00	9,200.00
MOBILIZATION 10%	LS	LS	10,747.25	10,747.25
SUBTOTAL CONTRACT ITEMS				107,473.00
SUBTOTAL SUPPLEMENTAL WORK				2,700.00
SUBTOTAL STATE OF CALIFORNIA FURN MATL+EXP				4,250.00
SUBTOTAL CONCURRENT WORK				1,500.00
PROJECT SUBTOTAL				114,423.00
CONTINGENCIES 5.05%				5,777.00
SUBTOTAL COST OF HIGHWAY WORK				120,200.00
PRELIMINARY ENGINEERING (ESTIMATED 4%)				9,616.00
CONSTRUCTION ENGINEERING (ESTIMATED 8%)				4,808.00
TOTAL ESTIMATED COST TO CALIFORNIA FOR HIGHWAY WORK				134,624.00

EXHIBIT "C"

ESTIMATE OF COST FOR CITY OF YUMA WATER TREATMENT FACILITIES

<u>ITEM</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>ITEM PRICE</u>	<u>TOTAL</u>
STRUCTURE EXCAVATION (TREATMENT PLANT)	CY	35,740	3.50 \$	125,090.00
STRUCTURE BACKFILL (TREATMENT PLANT)	CY	1,345	2.00	2,690.00
EMBANKMENT (TREATMENT PLANT)	CY	3,500	2.00	7,000.00
STRUCTURAL CONCRETE (IN BASINS)	CY	2,570	200.00	514,000.00
MISCELLANEOUS WORK (IN BASINS)	LS	1	220,000	220,000.00
CHEMICAL BUILDING	LS	1	275,000	275,000.00
MECHANICAL WORK	LS	1	620,000	620,000.00
BURIED PIPING	LS	1	400,000	400,000.00
YARDWORK	LS	1	120,000	120,000.00
ELECTRICAL WORK	LS	1	227,420	227,420.00
MOBILIZATION	LS	0.22	1,040,000	228,800.00
SUBTOTAL CONTRACT ITEMS				2,740,000.00
PRELIMINARY ENGINEERING (ESTIMATED 4%)				109,600.00
CONSTRUCTION ENGINEERING (ESTIMATED 8%)				219,200.00
TOTAL COST TO ARIZONA FOR WATER TREATMENT FACILITIES				\$3,068,800.00